

FIG. 1 is a schematic diagram of a device for measuring the length of a rod. The device includes a rod 2, a scale 1, and a measuring head 3. The rod 2 is positioned horizontally and is supported by a base 4. The scale 1 is positioned vertically and is used to measure the length of the rod 2. The measuring head 3 is positioned at the end of the rod 2 and is used to measure the length of the rod 2. The length of the rod 2 is denoted by L_m and the length of the measuring head 3 is denoted by W_L .

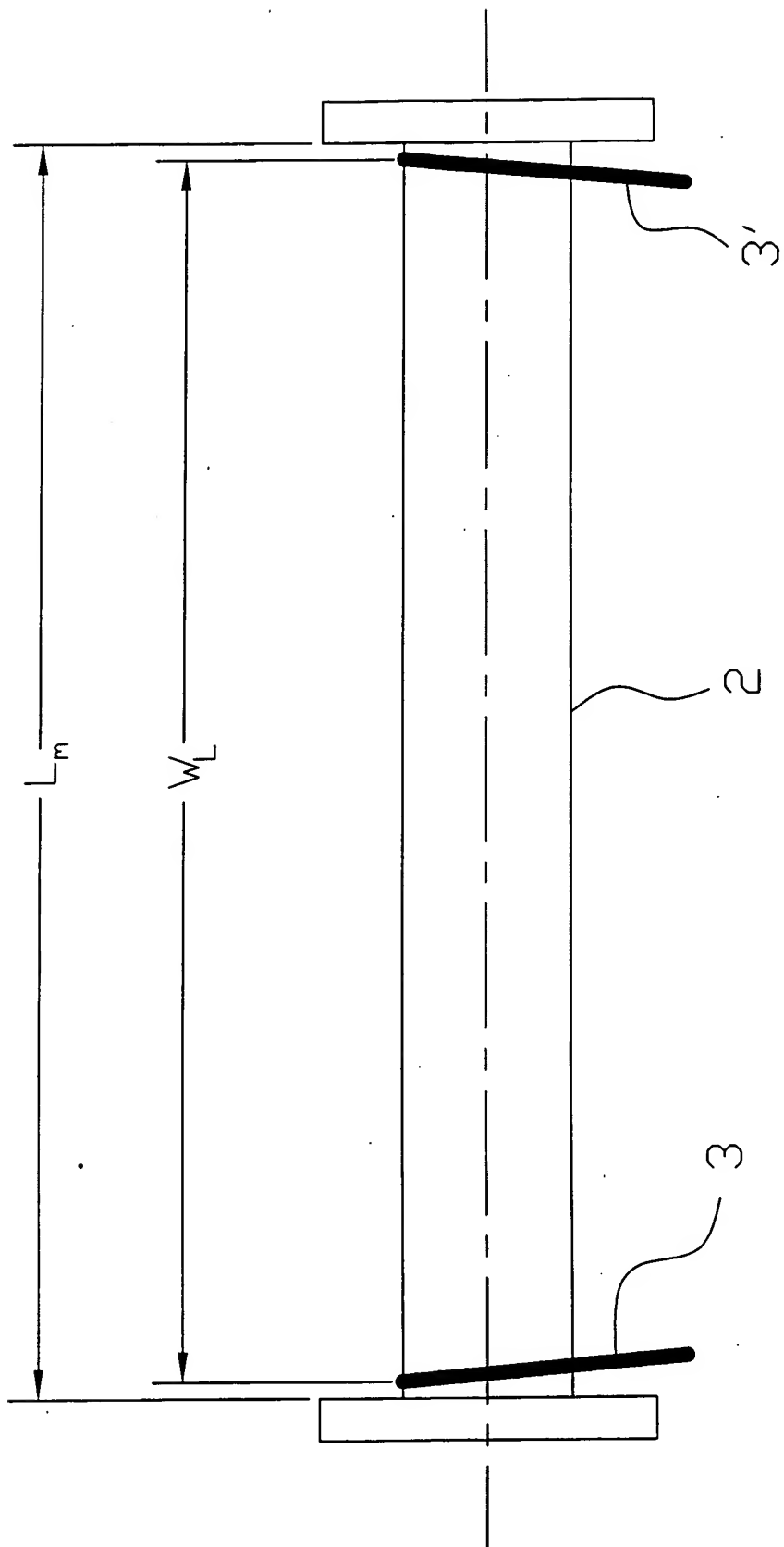


FIG. 1

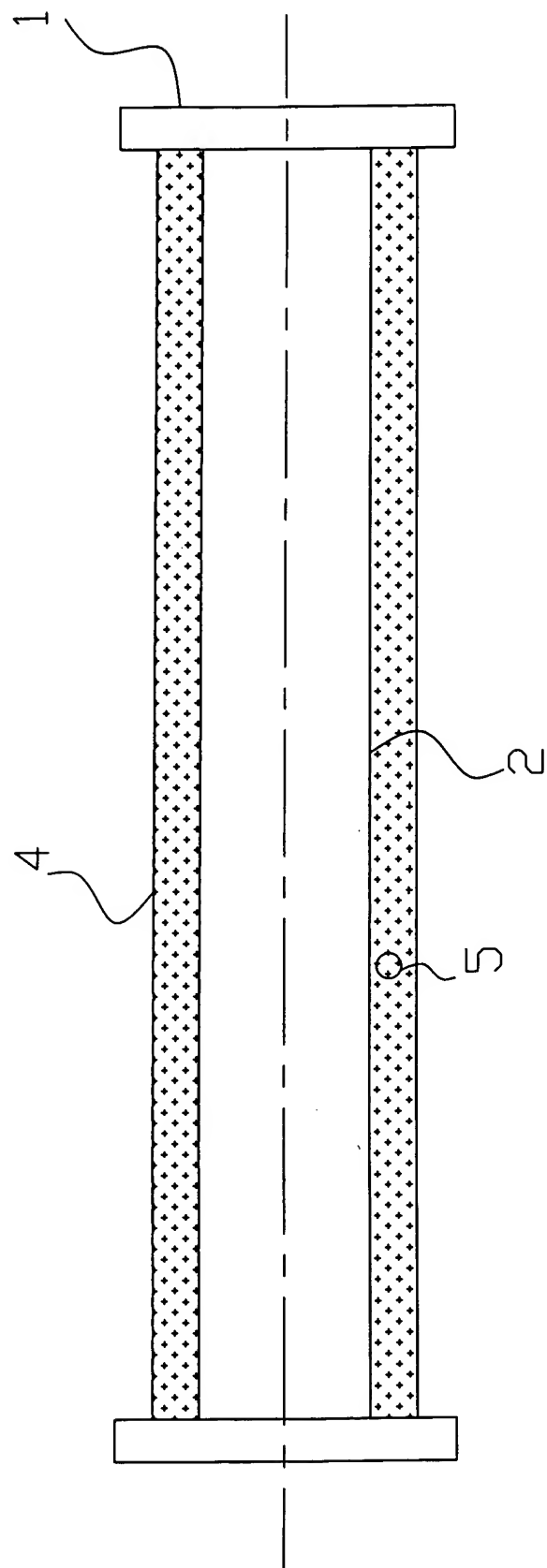


FIG. 2

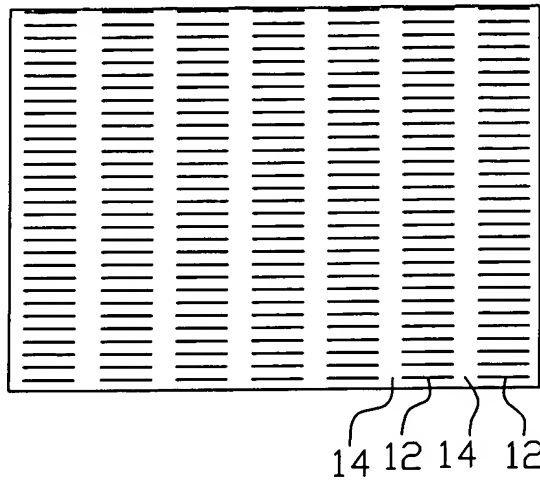


Fig. 3 Stacked Carbon Fiber Distribution

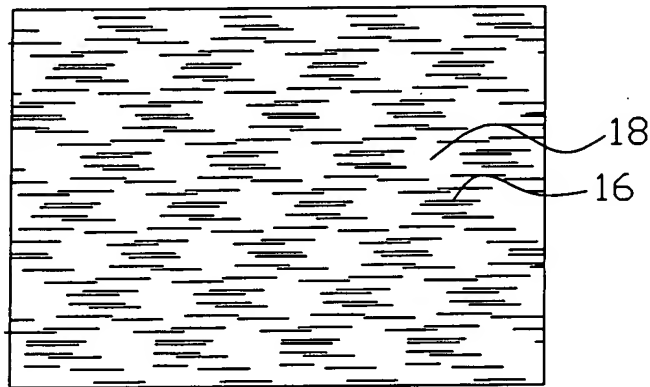


Fig. 4 Cross Hatched Carbon Fiber Distribution

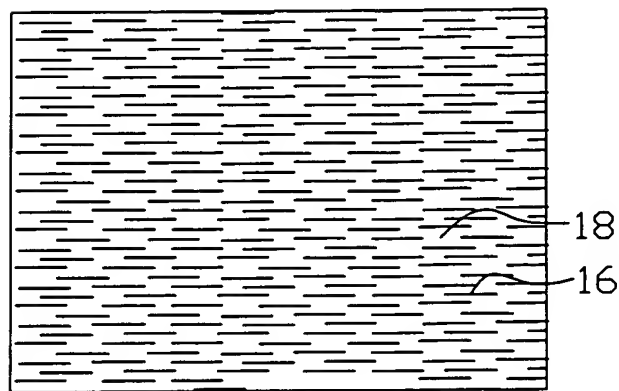


Fig. 5 Random or Uniform Carbon Fiber Distribution